AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended): An electrolyte composition comprising ionic liquid <u>and a halogen-based redox pair</u>, <u>wherein the ionic liquid including includes</u> dicyanoamide anions as anions.
- 2. (Original): The electrolyte composition according to claim 1, wherein the ionic liquid comprises cations having quaternized nitrogen atom.
 - 3. (canceled):
- 4. (Original): The electrolyte composition according to claim 1 as an electrolyte of a photoelectric conversion element.
- 5. (Original): A photoelectric conversion element comprising the electrolyte composition according to claim 1 as an electrolyte.
- 6. (Original): The photoelectric conversion element according to claim 5 being a dye-sensitized solar cell.

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7. (Original): The electrolyte composition according to claim 2 wherein the cations having quaternized nitrogen atom include quaternary ammonium, or cations of a nitrogencontaining heterocyclic compound.

- 8. (previously presented): The electrolyte composition according to claim 1 wherein the ionic liquid includes 1-ethyl-3-methylimidazolium dicyanamide, N-butylpyridinium dicyanamide, N-ethyl-N-methyl pyrrolidinium dicyanamide, N-propyl-N-methyl pyrrolidinium dicyanamide, N-butyl-N-methyl pyrrolidinium dicyanamide, N-hexyl-N-methyl pyrrolidinium dicyanamide, N-pentyl-N, N, N-triethyl ammonium dicyanamide, N-hexyl-N, N, N-triethyl ammonium dicyanamide.
- 9. (Original): The electrolyte composition according to claim 8 wherein the ionic liquid is selected from the group consisting of 1-ethyl-3-methylimidazolium dicyanamide and N-butylpyridinium dicyanamide.
- 10. (currently amended): The electrolyte composition according to claim 3-1 wherein the halogen-based redox pair includes halide ions and polyhalide ions.
- 11. (Original): The electrolyte composition according to claim 10 wherein the halide ions are selected from the group consisting of iodide ions (I'), bromide ions (Br'), and chloride ions (Cl').

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12. (Original): The electrolyte composition according to claim 10 wherein the polyhalide ions are selected from the group consisting of Br₃, I₃, I₅, I₇, Cl₂I, ClI₂, Br₂I, and BrI₂.

- 13. (currently amended): The electrolyte composition according to claim 3-1 wherein the halogen-based redox pair includes one which is obtained by mixing iodine / iodide ions or bromine / bromide ions.
- 14. (currently amended): The electrolyte composition according to claim 3-1 wherein the halogen-based redox pair is formed reacting halide ions with halogen molecules.
- 15. (Original): The electrolyte composition according to claim 1 further comprising a gelator.
- 16. (Original): The electrolyte composition according to claim 1 further comprising additives which include a organic nitrogen compound, a lithium salt, a sodium salt, a magnesium salt, an iodide salt, a thiocyanate salt, and water.
- 17. (Original): A dye-sensitized solar cell comprising a transparent electrode substrate, a working electrode having an oxide semiconductive porous film formed on the transparent electrode substrate which is made of oxide semiconductive fine particles and having a photo-sensitizing dye absorbed thereon, and a counter electrode provided opposing the working

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electrode, and an electrolyte layer comprising the electrolyte composition according to claim 1 which is provided between the working electrode and the counter electrode.

- 18. (Original): The dye-sensitized solar cell according to claim 17 wherein the transparent electrode substrate comprises a conductive layer made of a conductive material on a transparent substrate.
- 19. (Original): The dye-sensitized solar cell according to claim 18 wherein the transparent substrate includes glass, a transparent plastic substrate, and a polished plate of a ceramic.
- 20. (Original): The dye-sensitized solar cell according to claim 18 wherein the conductive layer includes a transparent oxide semiconductor selected from the group consisting of tin-doped indium oxide (ITO), tin oxide (SnO₂), fluorine-doped tin oxide (FTO), and mixtures thereof.
- 21. (Original): The dye-sensitized solar cell according to claim 18 wherein the conductive layer has a thickness of between about $0.05~\mu m$ and $2.0~\mu m$.
- 22. (Original): The dye-sensitized solar cell according to claim 17 wherein the oxide semiconductor porous film is a porous thin layer with a thickness between about 0.5 and 50 μm containing as a main component oxide semiconductor fine particles which include titanium oxide (TiO₂), tin oxide (SnO₂), tungsten oxide (WO₃), zinc oxide (ZnO), niobium oxide (Nb₂O₅), and

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mixtures thereof, where said oxide semiconductor fine particles have an average particle diameter between 1 nm to 1000 nm.

23. (Original): The dye-sensitized solar cell according to claim 17 measuring photoelectric conversion efficiency greater than 4.5%.